

AMENDMENTS TO THE SPECIFICATION

Please replace the paragraph beginning at page 8, line 8 of the specification, and ending at the bottom of page 8 with the following paragraph:

Modules 5 and 6 each have the full set of reduction domains (KR,DH and enoylreductase (ER)) to yield the methylene functions at C-11 and C-9. Modules 7 and 9 have KR domains to yield the hydroxyls at C-7 and C-3, and module 8 does not have a functional KR domain, consistent with the presence of the keto group at C5. Module 8 also contains a methyltransferase (MT) domain that results in the presence of the geminal dimethyl function at C-4. Module 9 has a thioesterase domain that terminates polyketide synthesis and catalyzes ring closure. The genes, proteins, modules, and domains of the epothilone PKS are summarized in the following Table.

Gene	Protein	Modules	Domains Present
<i>epoA</i>	EpoA	Load	Ks ^y mAT ER ACP
<i>epoB</i>	EpoB	1	NRPS, condensation, heterocyclization, adenylation, thiolation, PCP
<i>epoC</i>	EpoC	2	KS mmAT DH KR ACP
<i>epoD</i>	EpoD	3-6	KS mAT KR ACP; KS mAT KR ACP; KS mAT DH ER KR ACP; KS mmAT DH ER KR ACP
<i>epoE</i>	EpoE	7-8	Ks mmAT KR ACP; KS mmAT MT DH* KR <u>ACP</u>
<i>epoF</i>	EpoF	9	KS mAT KR DH* ACP TE